

**What is claimed is:**

1. A polymeric composition comprising a blend of:
  - (a) an alkene polymer; and
  - (b) a modifier selected from the group consisting of: a maleic anhydride grafted ethylene copolymer, an ethylene copolymer containing acid monomers and/or ester monomers, an acid-grafted propylene copolymer, and a maleic anhydride grafted blend of a propylene copolymer with an ethylene copolymer.
2. The polymeric composition according to claim 1 wherein the alkene polymer comprises propylene monomers.
3. The polymeric composition according to claim 1 wherein the alkene polymer is polypropylene.
4. The polymeric composition according to claim 1 wherein the alkene polymer is a copolymer of propylene and ethylene.
5. The polymeric composition of claim 1 wherein the alkene polymer is a copolymer of propylene with butene.
6. The polymeric composition of claim 1 wherein the alkene polymer is a terpolymer of propylene, ethylene and butene.
7. The polymeric composition of any one of claims 1-6 wherein the maleic anhydride grafted ethylene copolymer is selected from the group consisting of: maleic anhydride grafted metallocene very low density polyethylene, maleic anhydride grafted metallocene linear low density polyethylene, and a maleic anhydride grafted linear low density polyethylene made from a Ziegler-Natta catalyst.
8. The polymeric composition of any one of claims 1-7 wherein the acid monomers are acrylic acid or methacrylic acid, and the ester monomers are alkyl esters of

- 19 -

acrylic acid, alkyl acrylates, alkyl esters of methacrylic acid, alkyl methacrylates, glycidylmethacrylate, or vinyl acetate.

9. The polymeric composition of any one of claims 1-8 wherein the acid grafted propylene copolymer is acrylic acid grafted polypropylene.
10. The polymeric composition of any one of claims 1-6 wherein the modifier is maleic anhydride grafted blend of polypropylene with an ethylene copolymer in which the polypropylene is a propylene copolymer with ethylene and the ethylene copolymer is a metallocene very low density polyethylene.
11. The polymeric composition according to claim 4 wherein the copolymer contains 4-6% by weight of ethylene monomers.
12. The polymeric composition according to any one of claims 1-11 wherein the melt index of the composition is from 1 to 20.
13. A packaging film including:
  - (a) a first layer comprising a metal film; and
  - (b) a second layer on the first layer and comprising a polymeric composition comprising a blend of:
    - i) an alkene polymer; and
    - ii) a modifier selected from the group consisting of: a maleic anhydride grafted ethylene copolymer, an ethylene copolymer containing acid monomers and/or ester monomers, an acid-grafted propylene copolymer, and a maleic anhydride grafted blend of a propylene copolymer with an ethylene copolymer.
14. The packaging film according to claim 13 wherein the alkene polymer comprises propylene monomers.

- 20 -

15. The packaging film according to claim 13 wherein the alkene polymer is polypropylene.
16. The packaging film according to claim 13 wherein the alkene polymer is a copolymer of propylene and ethylene.
17. The packaging film of claim 13 wherein the alkene polymer is a copolymer of propylene with butene.
18. The packaging film of claim 13 wherein the alkene polymer is a terpolymer of propylene, ethylene and butene.
19. The packaging film of any one of claims 13-18 wherein the maleic anhydride grafted ethylene copolymer is selected from the group consisting of: maleic anhydride grafted metallocene very low density polyethylene, maleic anhydride grafted metallocene linear low density polyethylene, and a maleic anhydride grafted linear low density polyethylene made from a Ziegler-Natta catalyst.
20. The packaging film of any one of claims 13-19 wherein the acid monomers are acrylic acid or methacrylic acid, and the ester monomers are alkyl esters of acrylic acid, alkyl acrylates, alkyl esters of methacrylic acid, alkyl methacrylates, glycidylmethacrylate, or vinyl acetate.
21. The packaging film of any one of claims 13-20 wherein the acid grafted propylene copolymer is acrylic acid grafted polypropylene.
22. The packaging film of any one of claims 13-18 wherein the modifier is maleic anhydride grafted blend of polypropylene with an ethylene copolymer in which the polypropylene is a propylene copolymer with ethylene and the ethylene copolymer is a metallocene very low density polyethylene.
23. The packaging film according to claim 16 wherein the copolymer contains 4-6% by weight of ethylene monomers.

- 21 -

24. The packaging film according to any one of claims 13-23 wherein the melt index of the composition is from 1 to 20.
25. The packaging film according to any one of claims 13-24 wherein the metal is aluminum.
26. The packaging film according to any one of claims 13-24 wherein the metal is vacuum deposited aluminum.
27. The packaging film according to any one of claims 13-26 wherein the first layer and the second layer are co-extruded.
28. The packaging film according to any one of claims 13-27 further comprising a third layer co-extruded to the second layer, and wherein the third layer comprises polypropylene.
29. The packaging film according to claim 28 further comprising a fourth layer co-extruded to the third layer, and wherein the fourth layer is formed of a heat sealable polypropylene.
30. The packaging film according to claim 28 further comprising a fourth layer co-extruded to the third layer, wherein the fourth layer is formed of: a co-polypropylene blended with an elastomer, or a polypropylene / polyethylene copolymer with sufficient ethylene comonomer to provide elastomeric behaviour, or a copolymer of propylene/butene-1, or a homopolymer of butene-1.
31. A method of preparing a metallizable polymeric composition comprising the steps of:
  - (a) providing a polymeric matrix comprising an alkene polymer;
  - (b) providing a modifier selected from the group consisting of: a maleic anhydride grafted ethylene copolymer, an ethylene copolymer containing acid monomers and/or ester monomers, an acid-grafted propylene

- 22 -

copolymer, and a maleic anhydride grafted blend of a propylene copolymer with an ethylene copolymer; and

- (c) blending the modifier with the polymeric matrix.
- 32. The method according to claim 31 wherein the alkene polymer comprises propylene monomers.
- 33. The method according to claim 31 wherein the alkene polymer is polypropylene
- 34. The method according to claim 31 wherein the alkene polymer is a copolymer of propylene and ethylene.
- 35. The method of claim 31 wherein the alkene polymer is a copolymer of propylene with butene.
- 36. The method of claim 31 wherein the alkene polymer is a terpolymer of propylene, ethylene and butene.
- 37. The method of any one of claims 31-36 wherein the maleic anhydride grafted ethylene copolymer is selected from the group consisting of: maleic anhydride grafted metallocene very low density polyethylene, maleic anhydride grafted metallocene linear low density polyethylene, and a maleic anhydride grafted linear low density polyethylene made from a Ziegler-Natta catalyst.
- 38. The method of any one of claims 31-37 wherein the acid monomers are acrylic acid or methacrylic acid, and the ester monomers are alkyl esters of acrylic acid, alkyl acrylates, alkyl esters of methacrylic acid, alkyl methacrylates, glycidylmethacrylate, or vinyl acetate.
- 39. The method of any one of claims 31-38 wherein the acid grafted propylene copolymer is acrylic acid grafted polypropylene.
- 40. The method of any one of claims 31-36 wherein the modifier is maleic anhydride grafted blend of polypropylene with an ethylene copolymer in which the

- 23 -

polypropylene is a propylene copolymer with ethylene and the ethylene copolymer is a metallocene very low density polyethylene.

41. The method according to claim 34 wherein the copolymer contains 4-6% by weight of ethylene monomers.
42. The method according to any one of claims 31-41 wherein the melt index of the composition is from 1 to 20.
43. The method to any one of claims 31-42 wherein the polymeric matrix and the modifier are both resins.
44. The method to any one of claims 31-42 wherein the polymeric matrix is a resin and the modifier is a concentrate of maleic anhydride, wherein the concentrate is blended into the resin.
45. The method according to any one of claims 31-44 wherein the blending step is carried out in the presence of peroxides as radical initiators.
46. The method according to any one of claims 31-45 further comprising the step of adding a layer of aluminum on a surface of the polymeric composition.
47. The method according to claim 46 wherein the aluminum is vacuum deposited onto the surface.